PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	Cable type A-DSQ(ZN)(SR)2Y-(2-5)x12-250-652D/657A1+Cu2Y 1x2x0.64-2040						
Cable construction							
1. Outer sheath: UV-resistant PE							
2. Tape armor: Corrugated	2. Tape armor: Corrugated steel tape						
3. Optical loose tube: 2,3mm PBT Tube							
4. Intramodule compound	· · · · · · · · · · · · · · · · · · ·						
5. Optical Fiber: Single-mo							
6. Rip-cord: Synthetic yarr							
7. Central strength elemer	nt: Glass reinforced plastic 2,3m	าm FRP-E					
8. Water-blocking elemen	t of core: Water-swellable yarn						
9. Twisted pair: 2x0,64 mr	n Cu with PE insulation						
Temperature ranges	Storage and transportation	Installation	Operating				
	temperature	temperature	temperature				
	from -30 to +70 °C	from -10 to +50 °C	from -20 to +60 °C				
Resistance to water	Resistance to water Water resistant						
penetration							
Relative humidity at +35 ^o C, %	98						
Outer diameter, mm	11,3±0,2						
Average weight of 1 km of the 123±5%							
cable, kg	cable, kg						

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	3,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,25 (2500)
Resistance to axial torsion at angle ±180° on 2 m length cable	Resistant
Resistance to bends at angle $\pm 90^{\circ}$ with a radius equal to 20 nominal	Resistant
cable diameters	
Resistance to impact 15 J	Resistant

 $^{^{1}\}ensuremath{\,}^{1}$ Tensile strength value is for maximum number of fibers design

3. Electrical characteristics

Test voltage conductor-conductor, V	1000
Maximum operation voltage, V	250
Nominal capacitance between conductors, nF/km	50±5
Nominal conductor DC resistance at 20°C, Ohms/km	65±4

4. Packaging and marking

Cable factory length, km	6
Package	Drum №14g (1401x1013x1401)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

5. Coloring

Со	Coloring of fibers in loose tube (According to Customer's requirements color can be different).											
	1	2	3	4	5	6	7	8	9	10	11	12
	red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is							
natural.							
1	2	3	4	5	6		
red	green	blue	yellow	white	slate		

Coloring wires in a twisted pair (According to Customer's requirements color can be different)				
1 2				
white blue				

6. Product data

Fiber count	24	48	60
Loose tubes x fibers	2x12	4x12	5x12